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WHAT IS CLAIMED IS:

 A method for validating the integrity of a target data file loaded on a computing device, the method comprising:

providing a portable cryptographic device having a software verification key, the portable cryptographic device being coupled to a computing device; identifying a target data file for validation on the computing device; and generating a software verification value for the target data file using the software verification key.

- The method of Claim 1 further comprising storing the software verification value on the portable cryptographic device.
 - 3. The method of Claim 1 further comprising storing the software verification value on the computing device.
 - 4. The method of Claim 1 further comprising: receiving a user identification; and validating the user identification against a secret user information, wherein the secret user information is provided on the portable cryptographic device.
 - The method of Claim 4, wherein the user identification comprises a
 password.
 - The method of Claim 4, wherein the user identification comprises a
 personal identification number.
 - 7. The method of Claim 4, wherein the user identification comprises a biometric data
 - The method of Claim 1 further comprising:
 requesting a previously generated software verification value; and
 comparing the software verification value with the previously generated
 software verification value.
 - The method of Claim 8, wherein comparing the software verification value is performed in response to a startup of the target data file.
- The method of Claim 1, wherein the portable cryptographic device is a smart card.
 - The method of Claim 1, wherein the portable cryptographic device is a USB connected module.
 - The method of Claim 1, wherein generating the software verification value comprises a secure hashing calculation.

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- The method of Claim 1, wherein generating the software verification value comprises an encryption calculation.
- The method of Claim 1, wherein generating the software verification value comprises a message authentication calculation.
- 15. The method of Claim 1, wherein generating the software verification value comprises a digital signature.
- The method of Claim 1, wherein the target data file comprises an operating system.
- The method of Claim 1, wherein the target data file comprises an application program.
- 18. The method of Claim 1, wherein the software verification value is generated in response to detecting an install of the data file.
- 19. The method of Claim 1, wherein the software verification value is generated in response to detecting a closing of the data file.
- 20. The method of Claim 1, wherein the software verification value is generated in response to detecting a shutdown of the computing device.
- 21. The method of Claim 1, wherein the generating the software verification value is performed by logic on the portable cryptographic device.
- 22. The method of Claim 1, wherein the generating the software verification value is performed by logic executing on the portable cryptographic device.
- 23. The method of Claim 1, wherein the generating the software verification value is performed by logic executing on the computing device.
- 24. An apparatus for validating integrity of a data file, the apparatus comprising:
 - a software verification key being provided on a portable cryptographic device: and
 - a security logic coupled to the software verification key, the security logic operable to receive as input a target data file loaded on a computing device, the security logic operable to generate a software verification value for the target data file using the software verification key.
- The apparatus of Claim 24, wherein the security logic executes on the portable cryptographic device.
- The apparatus of Claim 24, wherein the security logic executes on the computing device.

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- The apparatus of Claim 24, wherein the portable cryptographic device is coupled to the computing device.
- 28. The apparatus of Claim 24, wherein the security logic is further operable to store the software verification value on the computing device.
- 29. The apparatus of Claim 28, wherein the software verification value is a protected software verification value.
 - 30. The apparatus of Claim 24, wherein the security logic is further operable to receive as input a user identification and validate the user identification against a secret user information, the secret user information being provided on the portable cryptographic device.
 - 31. The apparatus of Claim 24, wherein the security logic is further operable to request a previously generated software verification value and compare the software verification value against the previously generated software verification value.
- 32. A computer-readable storage medium having stored thereon computer instructions that, when executed by a computing device, cause the computing device to: detect a status change in a data file, the data file being loaded on a computing device;

request a software verification key, the software verification key being provided on a portable cryptographic device, the portable cryptographic device being coupled to the computing device; and

request a software verification value calculation for the data file, the software verification value calculation comprises a mathematical manipulation of the data file using the software verification key.

- The computer-readable storage medium of Claim 32, wherein the software verification value calculation is performed on the computing device.
- 34. The computer-readable storage medium of Claim 32, wherein the software verification value calculation is performed on the portable cryptographic device.
- 35. The computer-readable storage medium of Claim 32, wherein the status change comprises an install of the data file.
- 36. The computer-readable storage medium of Claim 32, wherein the status change comprises a closing of the data file.
 - The computer-readable storage medium of Claim 32, wherein the status change comprises a shutdown of the computing device.

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- 38. The computer-readable storage medium of Claim 32, wherein the computer instructions that detect a status change in a data file further comprise computer instructions that, when executed by a computing device, cause the computing device to:
- validate the user identification against a secret user information, the secret user information being provided on the portable cryptographic device.

receive a user identification; and

- 39. The computer-readable storage medium of Claim 32, wherein the computer instructions that detect a status change in a data file further comprise computer instructions that, when executed by a computing device, cause the computing device to:
- request a previously generated software verification value for the data file;
 - compare the software verification value with the previously generated software verification value.
- 40. The computer-readable storage medium of Claim 39, wherein the compare of the software verification value is performed in response to detecting a startup of the data file.